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Andrew Cockburn, Harold Thimbleby

February 1993 **Proceedings of the 1st international conference on Intelligent user  
interfaces**

Full text available: pdf(473.49 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** Mona (a CSCW system), conversational context, email, free guidance, heuristics

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### 1 [Session III - supporting distributed groups: Evolving electronic communication networks: an empirical assessment](#)

J. D. Eveland, T. K. Bikson

 December 1986 **Proceedings of the 1986 ACM conference on Computer-supported cooperative work**

 Full text available: [pdf\(875.59 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

### 2 [Manageability, availability and performance in Porcupine: a highly scalable, cluster-based mail service](#)

Yasushi Saito, Brian N. Bershad, Henry M. Levy

 December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5

 Full text available: [pdf\(1.62 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the motivation, design, and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying serv ...

### 3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

 Full text available: [pdf\(4.21 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

#### 4 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2


Full text available:  pdf(631.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

#### 5 Distributed systems support for adaptive mobile applications

Nigel Davies, Adrian Friday, Gordon S. Blair, Keith Cheverst

December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4

Full text available:  pdf(403.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile applications must operate in environments which experience rapid and significant fluctuations in the Quality of Service (QoS) offered by their underlying communications infrastructure. These fluctuations may be the result of explicit changes between networks, increased competition for network resources or degradation of service due to environmental factors. In order to continue to operate effectively mobile applications must be capable of adapting to these changes. This paper reports ...

#### 6 SaveMe: a system for archiving electronic documents using messaging groupware

Stefan Berchtold, Alexandros Biliris, Euthimios Panagos

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration**, Volume 24 Issue 2

Full text available:  pdf(1.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today, organizations deal with an ever-increasing number of documents that have to be archived because they are either related to their core business (e.g., product designs) or needed to meet corporate or legal retention requirements (e.g., voucher). In this paper, we present the architecture and prototype implementation of SaveMe, a document archival system that is based on network-centric groupware such as Internet standards-based messaging systems. In SaveMe, the actions of archiving, retrieval ...

**Keywords:** Internet, archiving, groupware, messaging

#### 7 CLUES: dynamic personalized message filtering

Matthew Marx, Chris Schmandt

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Full text available:  pdf(907.89 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** electronic mail, filtering, messaging, personal information management, voice mail

#### 8 A paradigm shift in the distribution of multimedia

Gerard Parr, Kevin Curran

June 2000 **Communications of the ACM**, Volume 43 Issue 6

Full text available:  pdf(226.87 KB)  
 html(33.72 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 The mobile people architecture

Petros Maniatis, Mema Roussopoulos, Ed Swierk, Kevin Lai, Guido Appenzeller, Xinhua Zhao, Mary Baker

July 1999 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 3 Issue 3

Full text available:  pdf(946.60 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

People are the outsiders in the current communications revolution. Computer hosts, pagers, and telephones are the addressable entities throughout the Internet and telephony systems. Human beings, however, still need application-specific tricks to be identified, like email addresses, telephone numbers, and ICQ IDs. The key challenge today is to find people and communicate with them personally, as opposed to communicating merely with their possibly inaccessible machines---cell phones that are turn ...

10 Unlinkable serial transactions: protocols and applications

Stuart G. Stubblebine, Paul F. Syverson, David M. Goldschlag

November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 4

Full text available:  pdf(184.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a protocol for unlinkable serial transactions suitable for a variety of network-based subscription services. It is the first protocol to use cryptographic blinding to enable subscription services. The protocol prevents the service from tracking the behavior of its customers, while protecting the service vendor from abuse due to simultaneous or cloned use by a single subscriber. Our basic protocol structure and recovery protocol are robust against failure in protocol termination. ...

**Keywords:** anonymity, blinding, cryptographic protocols, unlinkable serial transactions

11 MessageWorld: a new approach to facilitating asynchronous group communication

Daniel E. Rose, Jeremy J. Bornstein, Kevin Tiene

December 1995 **Proceedings of the fourth international conference on Information and knowledge management**


Full text available:  pdf(1.04 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Discovering shared interests using graph analysis

Michael F. Schwartz, David C. M. Wood

August 1993 **Communications of the ACM**, Volume 36 Issue 8

Full text available:  pdf(4.01 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** collaboration, directory service, dynamic organization, graph theory, interpersonal communications, resource directory, traffic analysis

13 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup  
October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Full text available:  [pdf\(276.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate moving users, changing network topology, and fluctuating link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

#### 14 On secure and pseudonymous client-relationships with multiple servers

Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer  
November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 4

Full text available:  [pdf\(161.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper introduces a cryptographic engine, Janus, which assists clients in establishing and maintaining secure and pseudonymous relationships with multiple servers. The setting is such that clients reside on a particular subnet (e.g., corporate intranet, ISP) and the servers reside anywhere on the Internet. The Janus engine allows each client-server relationship to use either weak or strong authentication on each interaction. At the same time, each interaction preserves privacy by neither ...

**Keywords:** Janus function, anonymity, mailbox, persistent relationship, privacy, pseudonym

#### 15 Agent augmented community-information: the ACORN architecture

Stephen Marsh, Youssef Masrour  
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(58.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The ACORN architecture is a multi-agent based system deployed across networks which provides a means for augmenting community-based systems of communication between people. In the system, information and queries are embodied as autonomous agents which contain metadata information about the information and also data about the community in which they exist. Using this data, the agents are able to direct themselves towards interested readers or knowledgeable information sources in order to disseminate ...

#### 16 MailCall: message presentation and navigation in a nonvisual environment

Matthew Marx, Chris Schmandt  
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**

Full text available:  [pdf\(1.22 MB\)](#)  [html\(46.83 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** auditory I/O, interaction design, mobile computing, speech interface design, speech recognition

#### 17 Reducing user effort in collaboration support

Andrew Cockburn, Harold Thimbleby

February 1993 **Proceedings of the 1st international conference on Intelligent user interfaces**

Full text available:  pdf(473.49 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** Mona (a CSCW system), conversational context, email, free guidance, heuristics

# 18 Consistent, yet anonymous, Web access with LPWA

Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer

February 1999 **Communications of the ACM**, Volume 42 Issue 2

Full text available:  pdf(207.80 KB)  html(30.92 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

# 19 Anonymous credit cards and their collusion analysis

Steven H. Low, Nicholas F. Maxemchuk, Sanjoy Paul


December 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 6

Full text available:  pdf(860.04 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

# 20 InfoSleuth: agent-based semantic integration of information in open and dynamic environments

R. J. Bayardo, W. Bohrer, R. Brice, A. Cichocki, J. Fowler, A. Helal, V. Kashyap, T. Ksiezyk, G. Martin, M. Nodine, M. Rashid, M. Rusinkiewicz, R. Shea, C. Unnikrishnan, A. Unruh, D. Woelk

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2

Full text available:  pdf(1.69 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The goal of the InfoSleuth project at MCC is to exploit and synthesize new technologies into a unified system that retrieves and processes information in an ever-changing network of information sources. InfoSleuth has its roots in the Carnot project at MCC, which specialized in integrating heterogeneous information bases. However, recent emerging technologies such as internetworking and the World Wide Web have significantly expanded the types, availability, and volume of data available to a ...

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